

IN THE SPECIFICATION:

On page 12, line 25-26, delete "Triton X-100 (Sigma)" and insert --TRITON X-100®

(brand of polyoxyethylene surfactant obtained from Sigma)--;

On page 13, line 11, delete "1% Triton X-100 (Sigma)" and insert 1% TRITON X-100®

(brand of polyoxyethylene surfactant obtained from Sigma)--;

After the Claims please insert the following:

--ABSTRACT

The invention pertains to the field of DNA detection for basic research, medical diagnostic testing, and forensic testing. Methods are provided for end labeling of DNA strands without a denaturation step so that cellular morphology can be better preserved. The DNA strands are first incubated with a halogenated deoxynucleotide triphosphate, such as brominated deoxyuridine triphosphate (BrdUTP), and an enzyme which can catalyze the addition of the halogenated deoxynucleotide to the 3' OH ends of the DNA strand, such as terminal deoxynucleotidyl transferase (TdT). The resulting modified DNA strands are then incubated with a labeled antibody, such as a fluoresceinated monoclonal antibody, that binds specifically to the halogenated deoxynucleotide. The label is then detected, e.g., by flow cytometry. The methods have utility in detecting apoptosis, DNA synthesis and/or repair, and as general methods for end labeling DNA.